

REMARKS

In response to the non-final Office action of December 12, 2007, applicants ask that all claims be allowed in view of the following remarks. Claims 1, 3-14, 17-28, and 31-40 are currently pending, of which claims 1, 7, 14, 28, 34, and 35 are independent. Claims 35-40 have been added. Support for the new claims may be found throughout the application, for example, at page 35, line 20 through page 38, line 14 referring to Fig. 9. No new matter has been introduced.

Kil Rejection

Claims 1, 3-14, 17-28, and 31-34 have been rejected as being anticipated by Kil (U.S. Patent Application Publication No. 2003/0115192). Applicants request reconsideration and withdrawal of this rejection because Kil fails to describe or suggest the subject matter of independent claims 1, 7, 14, 28, and 34, as described below.

Claims 1, 3-6, 14, 17-28, and 31-34

Independent claim 1 recites, *inter alia*, a data analysis display configured to display representations of sub-processes included in a data analysis process identified by a selected entry, where the displayed representations of sub-processes include a representation of a deployment sub-process for storing a created data attribute in one of a first transactional data source, a second transactional data source other than the first transactional data source, or a second analytical data source used for analytical processing. The data analysis display also is configured to display connections between the displayed sub-processes, the connections indicating a sequence with which the displayed sub-processes are performed when performing the data analysis process. Applicants submit that Kil fails to describe or suggest at least these features.

Specifically, Kil describes a system configured to assist a user in defining a data mining operation. See Kil at Abstract. More specifically, the Kil system is configured to receive, from a user, natural language input describing a goal of a data mining operation and process the natural language input to identify a data mining operation that achieves the described goal. See Kil at paragraphs [0017] and [0018]. To facilitate user entry of the natural language input, the Kil system displays a user interface that includes a text input box configured to enable a user to input

natural language describing the goal of the data mining operation. See Kil at paragraph [0047] and Fig. 2. The Kil user interface also is configured to display information related to data to be analyzed and field/variables to be used in the data mining operation identified based on analysis of the natural language input provided by the user. See Kil at paragraph [0049] and Fig. 2. The Kil user interface, however, does not display representations of sub-processes included in a data analysis process, much less a representation of a deployment sub-process for storing a created data attribute in one of a first transactional data source, a second transactional data source other than the first transactional data source, or a second analytical data source used for analytical processing. Rather, the Kil user interface displays a text box for entering natural language input and information (e.g., fields/variables) used in an identified data mining operation, none of which are representations of sub-processes included a data analysis process. Moreover, the Kil system does not contemplate that the data mining operation includes sub-processes including a deployment sub-process for storing a created data attribute in one of a first transactional data source, a second transactional data source other than the first transactional data source, or a second analytical data source used for analytical processing and, as such, cannot display a representation of such sub-processes, much less such a deployment sub-process.

Notably, the Office action fails to identify any portion of Kil with respect to the features of independent claim 1 related to displaying representations of sub-processes. See Office action of December 12, 2007 at page 3. Applicants respectfully submit that this is improper and respectfully request an indication that independent claim 1 is allowable or, if the rejection is to be maintained, that each feature of claim 1 be specifically addressed in another non-final Office action.

Furthermore, Applicants submit that the Kil system fails to display connections between the displayed sub-processes, the connections indicating a sequence with which the displayed sub-processes are performed when performing the data analysis process. The Office action cites Fig. 8 of Kil with respect to this feature. However, Fig. 8 displays a variety of tables illustrating an example of a data set associated with a data mining operation. See Kil at paragraphs [0087] to [0089] and Fig. 8. Applicants submit that the displayed tables are not displayed connections between displayed sub-processes that indicate a sequence with which the displayed sub-

processes are performed. Rather, the tables display data associated with the data mining operation and do not indicate a sequence with which the displayed sub-processes are performed.

Thus, for at least the reasons discussed above, Applicants submit that Kil fails to describe or suggest a data analysis display configured to (1) display representations of sub-processes included in a data analysis process identified by a selected entry, where the displayed representations of sub-processes include a representation of a deployment sub-process for storing a created data attribute in one of a first transactional data source, a second transactional data source other than the first transactional data source, or a second analytical data source used for analytical processing, and (2) display connections between the displayed sub-processes, the connections indicating a sequence with which the displayed sub-processes are performed when performing the data analysis process, as recited in independent claim 1. Accordingly, Applicants respectfully request reconsideration and withdrawal of the rejection of independent claim 1 and its dependent claims.

Independent claims 14, 28, and 34, each recite, *inter alia*, receiving (claim 14) or computer program product (claim 28) or processor (claim 34) configured to receive multiple sub-process user inputs, each sub-process user input identifying a sub-process associated with the data analysis process, where at least one of the identified sub-processes is a deployment sub-process for storing a data attribute created in another of the identified sub-processes in one of the first transactional data source, a second transactional data source other than the first transactional data source, or a second analytical data source used for analytical processing. As described above, Kil fails to describe or suggest a data analysis display configured to display representations of sub-processes included in the data analysis process identified by the selected entry, where the displayed representations of sub-processes include a representation of a deployment sub-process for storing the created data attribute in one of the first transactional data source, a second transactional data source other than the first transactional data source, or a second analytical data source used for analytical processing. Therefore, Kil also fails to describe or suggest receipt of multiple sub-process user inputs, each sub-process user input identifying a sub-process associated with the data analysis process, where at least one of the identified sub-processes is a deployment sub-process for storing a data attribute created in another of the identified sub-processes in one of the first transactional data source, a second transactional data

source other than the first transactional data source, or a second analytical data source used for analytical processing. For at least these reasons, applicants respectfully request reconsideration and withdrawal of the rejection of independent claims 14, 28, and 34 and their dependent claims.

Claims 7-13

Independent claim 7 recites, *inter alia*, a common data display configured to receive user input indicating an entry of selected meta-data elements to be used in the data analysis process wherein each meta-data element is associated with a corresponding data element in the data source and with a corresponding data element in the analytical processing data source.

Applicants submit that Kil fails to describe or suggest at least this feature.

Specifically, the Office action indicates that claim 7 "is a computer program product substantially corresponding to claim 1 and is thus rejected for the same reasons as claim 1." Office action of December 12, 2007 at page 5. However, claim 7 includes features that are different than features of claim 1 and, therefore, these features have not been addressed in the Office action. Applicants respectfully submit that the failure of the Office action to address the features of independent claim 7 is improper and respectfully request an indication that independent claim 7 is allowable or, if the rejection is to be maintained, that each feature of claim 7 be specifically addressed in another non-final Office action.

For example, independent claim 7 recites a common data display configured to receive user input indicating an entry of selected meta-data elements to be used in the data analysis process wherein each meta-data element is associated with a corresponding data element in the data source and with a corresponding data element in the analytical processing data source. This feature is not included in independent claim 1 and, as such, has not been addressed in the Office action. Moreover, applicants submit that the Kil user interface, which displays a text box for entering natural language input and information (e.g., fields/variables) used in an identified data mining operation, fails to include a common data display configured to receive user input indicating an entry of selected meta-data elements to be used in the data analysis process wherein each meta-data element is associated with a corresponding data element in the data source and with a corresponding data element in the analytical processing data source. Therefore, for at least these reasons, applicants respectfully request reconsideration and withdrawal of the rejection of independent claim 7 and its dependent claims.

Claims 35-39

New independent claim 35 recites a graphical user interface that includes, *inter alia*, first through fourth graphical icon representing sub-processes included in a data analysis process, and graphical connections between the displayed graphical icons, the graphical connections indicating a sequence with which the sub-processes represented by the displayed graphical icons are performed. Applicants submit that Kil, which describes a user interface that includes a text box for entering natural language input and information (e.g., fields/variables) used in an identified data mining operation, fails to describe or suggest at least these features. Accordingly, applicants submit that new independent claim 35 and its dependent claims are allowable.

Conclusion

It is believed that all of the pending issues have been addressed. However, the absence of a reply to a specific rejection, issue or comment does not signify agreement with or concession of that rejection, issue or comment. In addition, because the arguments made above may not be exhaustive, there may be reasons for patentability of any or all pending claims (or other claims) that have not been expressed. Finally, nothing in this reply should be construed as an intent to concede any issue with regard to any claim, except as specifically stated in this reply.

Applicants submit that all claims are in condition for allowance.

The fee in the amount of \$260.00 in payment of the excess claims fee is being paid concurrently herewith on the Electronic Filing System (EFS) by way of Deposit Account authorization. Please apply any other charges or credits to deposit account 06-1050.

Respectfully submitted,

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